

Claims

What is claimed is:

1. A holster for an electronic device, the holster comprising: a harness portion for holding an electronic device; a clip portion for clipping to a user's apparel; a mechanism for rotatably attaching the harness portion to the clip portion, the rotatable attachment mechanism allowing rotation of the harness portion relative to the clip portion through a range of rotational positions and maintaining each rotational position along the rotation range against the force of gravity.

2. A holster as recited in claim 1, wherein the rotation mechanism includes at least one of the group consisting of a ratchet mechanism, a rotary joint with sufficient frictional resistance to maintain selected rotational orientations, a rotary joint with a set screw, and a rotary joint with a locking pin.

3. A holster as recited in claim 1, wherein the rotation mechanism includes a ratchet mechanism.

4. A holster as recited in claim 1, wherein the ratchet mechanism includes a ratchet pawl and a plurality of ratchet engagement elements, wherein the ratchet pawl is disposed on one of the harness portion and the clip portion and the plurality of ratchet engagement elements are disposed on the other of the harness portion and the clip portion.

5. A holster as recited in claim 4, wherein the plurality of ratchet engagement elements include a plurality of indentations.

6. A holster as recited in claim 1, wherein the clip portion includes a belt clip.

7. A holster as recited in claim 1, wherein the clip portion includes: a back plate rotatably coupled to the harness portion; a clip member pivotally coupled to the back plate; a biasing mechanism arranged to urge one end of the clip member toward the back plate.

8. A holster as recited in claim 7, wherein the rotation mechanism includes a ratchet mechanism having a ratchet pawl and a plurality of ratchet engagement elements, wherein the ratchet pawl is disposed on one of the harness portion and the back plate and

the plurality of ratchet engagement elements are disposed on the other of the harness portion and the back plate.

9. A holster as recited in claim 8, wherein the ratchet engagement elements include depressions.

10. A holster as recited in claim 7, wherein the rotation mechanism includes a ratchet mechanism having a ratchet pawl and a plurality of ratchet engagement elements, wherein the ratchet pawl is disposed on the harness portion and the plurality of ratchet engagement elements are disposed on the back plate.

11. A holster as recited in claim 1, wherein the rotatable attachment mechanism includes a connector pin having a pin shaft and a pin head, the pin shaft extending through the harness portion and connecting to the clip portion, with the pin head disposed on one side of the harness portion and with the clip portion disposed on the opposite side of the harness portion.

12. A holster as recited in claim 11, wherein the connector pin connects to a pin receptacle on the clip portion with a snap connection.

13. A holster as recited in claim 1, wherein the clip portion is pivotally connected by a hinge to the harness portion to allow the harness portion to pivot upward relative to the clip portion.

14. A holster for an electronic device, the holster comprising: a harness portion for holding an electronic device; a clip portion for clipping to a user's apparel; a hinge for attaching the harness portion to the clip portion to allow the harness portion to pivot upward relative to the clip portion.

15. A holster as recited in claim 14, further comprising a mechanism for rotatably attaching the harness portion to the clip portion, the rotatable attachment mechanism allowing rotation of the harness portion relative to the clip portion through a range of rotational positions and maintaining each rotational position along the rotation range against the force of gravity.

16. A holster as recited in claim 15, wherein the rotation mechanism includes at least one of the group consisting of a ratchet mechanism, a rotary joint with sufficient frictional resistance to maintain selected rotational orientations, a rotary joint with a set screw, and a rotary joint with a locking pin.

17. A holster as recited in claim 15, wherein the rotation mechanism includes a ratchet mechanism.

18. A holster as recited in claim 17, wherein the ratchet mechanism includes a ratchet pawl and a plurality of ratchet engagement elements, wherein the ratchet pawl is disposed on one of the harness portion and the clip portion and the plurality of ratchet engagement elements are disposed on the other of the harness portion and the clip portion.

19. A holster as recited in claim 15, wherein the clip portion includes a belt clip.

20. A holster as recited in claim 15, wherein the clip portion includes: a back plate rotatably coupled to the harness portion; a clip member pivotally coupled to the back plate; a biasing mechanism arranged to urge one end of the clip member toward the back plate.

21. A method of retaining an electronic device, the method comprising: holding an electronic device in a harness portion of a holster; clipping a clip portion of a holster to a user's apparel; rotatably attaching the harness portion to the clip portion, for rotation of the harness portion relative to the clip portion through a range of rotational positions; and maintaining each rotational position along the rotation range against the force of gravity.

22. A medical device and holster system comprising: a medical device having medical tubing for connection to a user; a holster comprising a harness portion for holding an electronic device, a clip portion for clipping to a user's apparel, and a mechanism for rotatably attaching the harness portion to the clip portion, the rotatable attachment mechanism allowing rotation of the harness portion relative to the clip portion through a range of rotational positions and maintaining each rotational position along the rotation range against the force of gravity.

23. A holster as recited in claim 1, wherein the electronic device in a medical infusion pump

24. A holster as recited in claim 1, wherein the electronic device is a medical monitor

25. A holster as recited in claim 14, wherein the electronic device in a medical infusion pump.

26. A holster as recited in claim 14, wherein the electronic device in a medical monitor.

27. A holster as recited in claim 15, wherein the electronic device in a medical infusion pump.

28. A holster as recited in claim 15, wherein the electronic device in a medical infusion pump.